

CENTRAL PNEUMATIC®

6" Random Orbit Palm Sander

Model 93742

ASSEMBLY AND OPERATING INSTRUCTIONS



Due to continuing improvements, actual product may differ slightly from the product described herein.



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For technical questions and replacement parts, please call 1-800-444-3353.

Specifications

Construction	Cast Aluminum Body, PVC Outer Housing, and Brass Air Inlet	Backing Pad	3/8" x 5-7/8" Polyurethane Disc
Air Inlet Dimensions	1/4"-18 NPT Female	Speed	10,000 RPM random orbital motion
Average Air Consumption	7 CFM @ 90 PSI	Max. Air Pressure	90 PSI
Overall Dimensions	5-3/4"L x 4-1/2"W x 4-1/2"H	Net Weight	2 Lbs.

Save This Manual

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

Safety Warnings and Precautions

WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using this tool!

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Do not use machines or power tools such as air compressor in damp or wet locations. Don't expose to rain. Keep work area well lit. Do not use electrically powered tools in the presence of flammable gases or liquids.
3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools, or air lines.
4. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
6. **Dress properly while working.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically nonconductive clothes

and nonskid footwear are recommended when working. Wear restrictive hair covering to contain long hair.

7. **Use eye and ear protection.** Always wear ANSI approved impact safety goggles. Wear a full face shield if you are producing metal filings or wood chips. Wear an ANSI approved dust mask or respirator when working around metal, wood, and chemical dusts and mists.
8. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines.
9. **Maintain tools with care.** Keep tools clean and in good condition for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool fittings and hoses periodically and, if damaged, have them repaired by an authorized technician. The tool must be kept clean, dry, and free from oil and grease at all times.
10. **Disconnect Air Hose before maintenance.** Never service the Sander, clear jams, or disassemble with the air hose attached. Disconnect the Sander when not in use.
11. **Remove adjusting keys and wrenches.** Check that keys and adjusting wrenches are removed from the tool or machine work surface before connecting it.
12. **Avoid unintentional starting.** Be sure the valve lever is in the Off position when not in use and before attaching to pressure source.
13. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
14. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if the trigger does not operate properly.
15. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.
16. **Compressed air only.** Never use combustible gas as a power source.
17. **Do not operate tool if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.

18. **Use proper size and type air pressure line and fittings.** The recommended air line for this tool is 3/8" ID delivering no more than 90 PSI.
19. **Maintenance.** For your safety, service and maintenance should be performed regularly by a qualified technician.
20. **Disconnect air supply before adjusting Sander or replacing Sanding Pad.** Before making any adjustments to the Sander make sure that the compressed air is disconnected.
21. **Use Sander on an appropriate work surface only.** Test sander on a test scrap of material before sanding the workpiece. Always wear ANSI approved safety goggles during use and maintenance.
22. **WARNING:** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contain chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead-based paints
 - Crystalline silica from bricks and cement or other masonry products
 - Arsenic and chromium from chemically treated lumber

The Brass components of this product contain lead, a chemical known to the state of California to cause birth defects (or other reproductive harm).
(California Health & Safety Code § 25249.5, *et seq.*)

Warning: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Unpacking

When unpacking, check to make sure the following parts are included.

*Palm Random Orbital Sander
6" Backing Pad
22 mm Chrome Plated Flat Wrench*

If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual.

Air Pressure Supply

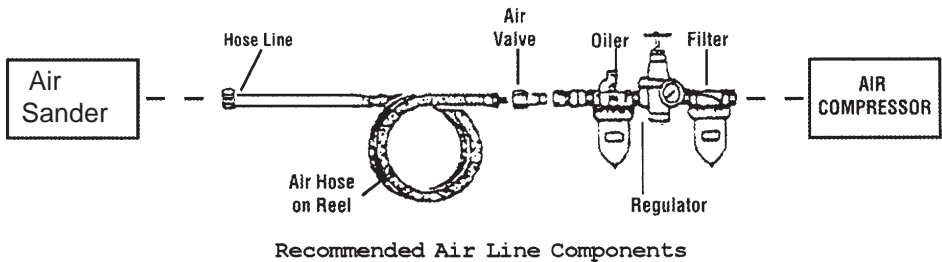
This tool is designed to operate with a maximum air pressure of 90 PSI. You must use an air regulator, set at 90 PSI or below.

In use, this tool will use, on average, 7 Cubic Feet per Minute of compressed air at 90 PSI. For satisfactory performance, you must use an air compressor capable of delivering this volume of air at the stated pressure.

We recommend that you use both a filter and an inline oiler in your air supply system as illustrated in the diagram below. These components are not included with this tool, but are available from Harbor Freight Tools.

If you do not use a filter and inline oiler, put a few drops of water displacement oil into the air line before each use. After each use, the Palm Sander should be carefully drained of collected moisture and sprayed with a water displacement oil.

We recommend that you install a quick-release nipple (not included) into the Regulator. Quick release connectors at all points in an air pressure system make your work easier.



Operation

Installing the Sanding Pad

1. Disconnect the air hose from the tool.
2. Select the appropriate sanding pad (not included), and press it onto the Backing Pad (31). **NOTE:** You should always start with a sanding pad coarse enough to remove saw marks and do preliminary shaping of the workpiece. Then sand the workpiece with progressively finer grit sanding pads until the desired surface is achieved. Do not move directly from a coarse grit sanding pad to a much finer grit sanding pad. Doing so wastes time and causes additional wear on you and the tool.

3. Press sanding pad onto a piece of scrap material, and operate tool briefly. This will seat sanding pad firmly on Backing Pad (31). Failure to seat sanding pad may cause sanding pad to come loose, possibly causing personal injury or property damage.

Using the tool

CAUTION: Whenever using this tool wear ANSI approved safety goggles.

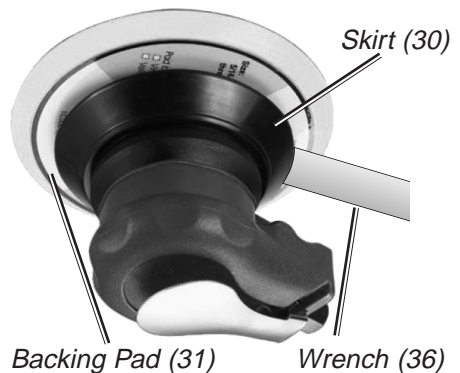
4. Turn the air compressor (not included) on and allow the air tank to come up to pressure. Set the compressor output regulator to no more than 90 PSI.
5. Attach the air supply hose (not included) to the tool.
6. Grip the base of the tool in one hand. The Valve Lever (1) will be under your palm. Squeeze the tool to depress the Valve Lever (1) and the tool will operate.
7. Place the tool on the work surface to begin sanding.
8. To stop sanding, lift the tool from the work surface, and relax your grip to allow the Valve Lever (1) to lift into the closed position.
9. When you are done work, disconnect the air pressure hose from the tool, and turn off the air compressor.

Removing Sanding pad

1. Disconnect air pressure hose from tool.
2. Hold tool with sanding pad upward. Peel sanding pad from Backing Pad (31).
NOTE: Do not store tool with sanding pad in place. Heat generated during sanding may cause pad to bond to Backing Pad, making subsequent removal difficult.

Removing Backing Pad (31)

1. Disconnect tool from air supply. Slide Wrench (36) under Skirt (30) as shown in photo at right. Engage Wrench with Pad Retainer (38).
2. Holding Wrench firmly, rotate Backing Pad (31) counterclockwise to remove.



Replacing Backing Pad (31)

1. Disconnect air pressure hose from tool
2. Place Wrench (36) onto Pad Retainer (38) and hold firmly.
3. Place Backing Pad (31) on Pad Retainer (38) and turn clockwise to attach. Hand tighten firmly.

Maintenance

1. Place a few drops of light weight air tool oil (not included) into the Regulator each time before using the tool.
2. After each use, drain any accumulated moisture from the tool, and spray a small amount of water displacing oil into and on the tool. Wipe clean.
3. Store tool in a safe location out of reach of children and unauthorized persons.

Troubleshooting

Tool will not operate.

1. **Possible cause:** Low or no air pressure.
Solution: Check air compressor to be sure it is operating properly. Check Air Regulator. Check air lines for leaking or blockage.
2. **Possible cause:** Corroded Rotor (39).
Solution: Spray light weight penetrating oil into the Regulator. If tool still won't operate, take it to a qualified service technician for repair.
3. **Possible Cause:** Damaged Seals or O rings.
Solution: Take it to a qualified service technician for repair.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

NOTE: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

Parts List

Part	Description	QTY.
1	Valve Lever	1
2	Spring Pin Ø3x25mm	1
3	Body Cover	1
4	Body	1
5	Valve Pin Sleeve	1
6	Wave Washer 12mm	1
7	O-Ring P8	2
8	O-Ring P4 x Ø7mm	1
9	Valve	1
10	Valve Spring	1
11	Pin Ø3x22mm	1
12	Inlet	1
13	Screw m5x10	1
14	Conical Washer m5	1
15	(Bearing 6000ZE)	1

Part	Description	QTY.
16	Upper Bearing Case	1
17-1	Cylinder	1
17-2	Spring Pin Ø3x5mm	1
17-3	O-Ring P7	1
17-4	Spring Pin Ø3x5mm	1
17-5	Spring Pin Ø3x5mm	1
18	Lower Bearing Case	1
19	Bearing (6000ZE)	1
20	Shaft w/Head (A)	1
21	H/R Key (3x13)	1
22	Bearing (60012RS)	1
23	Felt Ring (Ø18)	1
24	Dust Seal	1
25	Snap Ring (NR28)	1
26	Body Gasket	1

Part	Description	QTY.
27	Base Ring	1
28	Cap Screw (M4x12)	4
29	Screw (M4x12)	1
30	Skirt	1
31	6" Backing Pad	1
32	Silencer Set	1
33	Upper Side Plate	1
34	Lower Side Plate	1
35	Screw (M5x10)	1
36	Flat Wrench	1
37	Ball Bearing (688ZE)	1
38	Pad Retainer	1
39	Rotor	1
40	Vane	5

Assembly Drawing

